

Claims

- 1 1. A quick connect anchor 20 for attachment to a cooperating fastener
2 (110), the anchor comprising:
3 a plate (30) configured to be placed over the fastener and
4 configured to be moved in a first direction from a free position to a locked
5 position; and
6 a resilient blocking member (50) movable with the plate from a first
7 position, in which the resilient member is free from the fastener, to an
8 engaged position in engagement with a portion of the fastener, to
9 resiliently connect the plate with the fastener when the plate is in its locked
10 position.
- 1 2. The device as defined in Claim 1 further including a motion stop
2 (78, 80) to prevent the anchor (20) from moving to a position in which the
3 anchor is free from the fastener.
- 1 3. The device as defined in Claim 2 wherein the stop is formed from a
2 portion of the resilient member.
- 1 4. The device as defined in Claim 1 wherein the resilient member is
2 configured to be snap-fit upon portions of the plate.
- 1 5. The device as defined in Claim 1 wherein the resilient member
2 comprises:
3 a bridge (52) extending between a first side (32) and a second side
4 (33) of the plate, the resilient blocking member (50) further including first
5 and second legs (53 and 54), each leg received in a snap-fit manner upon
6 a corresponding side of the plate.

1 6. The device as defined in Claim 1 wherein the resilient member
2 comprises:
3 a bridge (52) extending between a first side (32) and a second side
4 (33) of the plate (30), the resilient member further including first and
5 second legs (52 and 53) wherein each leg is fixedly received upon a
6 corresponding plate side.

1 7. The device as defined in Claim 6 wherein each leg (52 and 53) is
2 riveted to a corresponding side of the plate.

1 8. The device as defined in Claim 5 wherein each leg (52, 53)
2 terminates in a hook (54, 55) received within a recess (56, 57) of each
3 plate side (32, 33).

1 9. The device as defined in Claim 1 wherein the plate includes
2 opening (34) having a large diameter portion of sufficient size to permit the
3 plate to be placed over a head (112) of the fastener, and a small diameter
4 portion configured to receive a shoulder or shaft (114) of the fastener, the
5 shoulder positioned underneath the head of the fastener (110) to achieve
6 the locked position.

1 10. The device as defined in Claim 1, the fastener including a head 112
2 having a cavity in a top surface (120) thereof, the resilient blocking
3 member (50) includes a bridge (52) wherein the bridge includes a center
4 portion (60) and wherein the center portion has a depression configured to
5 be snapped into the recess when the anchor is moved to a locked position.

1 11. The device as defined in Claim 10 including a motion stop (78, 80)
2 extending from the center portion (60), the motion stop (78, 80) extending
3 further into the recess of the fastener than the depression extends into the
4 recess.

1 12. The device as defined Claim 10 wherein the center portion is one-
2 half of a semicircle having a rear edge (80) positioned opposite the first
3 direction.

1 13. The device as defined in Claim 12 wherein the motion stop extends
2 from the rear edge.

1 14. The device as defined in Claim 9 wherein the resilient blocking
2 member (200) is rotatably affixed to and movable with the plate (30), the
3 blocking member movable into the small diameter portion (38) to prevent
4 disengagement of the bolt from the anchor.

1 15. The device as defined in Claim 14 wherein the resilient blocking
2 member includes a resilient leg or spring (220).

1 16. The device as defined in Claim 15 wherein the resilient leg or spring
2 is secured at one end to the blocking member and slidably configurable
3 relative to an edge (33a) of the side (33) of the plate (30).